Nicolas DUPONT

Aspiring Data Analyst/Engineer | Computer Science Graduate (AI & Data)

Eager for diverse knowledge and seeking new experiences, I wish to apply my skills in data management, data processing, data analysis, and artificial intelligence acquired during my studies to innovative projects, in France or abroad.

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PROFESSIONAL EXPERIENCE

Data Analyst Intern/Apprentice
Orange Innovation
05/2023 - 09/2024
Internal research and development entity of the Orange Group

Within the team responsible for the DevOps toolchain of the Orange group, I worked on leveraging data from the tools and services of the chain, particularly in a Logs4Ops approach.

Main Achievements
- Creation of usage analysis dashboards for services from logs, for the teams and the Product Owner
- Detection of bad practices and irregular usages from logs and cross-referencing with user databases to alert the concerned teams using Python scripts
- Installation of a pipeline for collecting Kubernetes environment variables as logs for exploitation in the Elastic Stack
- Implementation of a support chatbot from a GenAI platform using Retrieval-Augmented Generation techniques

PROJETS PERSONNELS

datapipe-auto-deploy
In collaboration with Albert AVETISYAN
2025 - Present

This project aims to create a fully automated data pipeline (Extraction, Transformation, Loading) on AWS and Snowflake, using Terraform for infrastructure management; for demonstration and learning purposes.
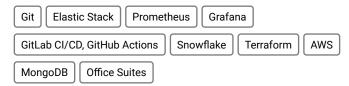
Project Achievements
- Real-time data collection from public and free APIs (cryptocurrencies, Reddit posts, etc.) and Data processing with Python scripts running in AWS Lambda
- Use of AWS services such as EventScheduler, Step Functions, and SNS to orchestrate the pipeline
- Data ingestion into Snowflake using Snowpipe
- Use of Terraform to automate the deployment of AWS and Snowflake infrastructure, locally or GitHub Actions

SKILLS

PROGRAMMING
Python Java C SQL Shell

TOOLS
Git Elastic Stack Prometheus Grafana
GitLab CI/CD, GitHub Actions Snowflake Terraform AWS
MongoDB Office Suites

KNOWLEDGE
Machine Learning Deep Learning Natural Language Processing
Database Management Agile Project Management

SOFT SKILLS
Autonomy Curiosity Adaptability Proactivity

LANGUAGES

French (native) English (C1) German (B1)

EDUCATION

Master's in Computer Science, specializing in Artificial Intelligence: Foundations and Applications (IAFA), Data and Knowledge specialization
Université Toulouse III - Paul Sabatier
2022 - 2024

The IAFA program aims to train students to a high level of mastery of the foundations of modern artificial intelligence, to develop their expertise in various fields, offering several specializations, one of which focuses on the management of structured data and its transformation into exploitable knowledge.

Main Courses
- Machine learning, neural networks, knowledge representation, automatic reasoning, natural language processing, database management, Big Data, graph mining

Bachelor's in Computer Science
Université Toulouse III - Paul Sabatier
2017 - 2022

The computer science bachelor's degree, combining theory and practice according to international standards, provides a solid foundation in computer science while remaining adapted to a constantly evolving sector.

Main Courses
- Algorithms, programming, computer architecture, operating systems, networks, databases, logic, probabilities and statistics, artificial intelligence, human-machine interface, security, software engineering, project management

Scientific Baccalaureate
Lycée Saint-Sernin, Toulouse
2017

Specialization in Life and Earth Sciences, Physics-Chemistry option

Honors

PERSONAL INTERESTS

SPORTS
Swimming Basketball Cycling

PASTIMES
Video Games History & Geography Trivia & General Knowledge